## IN THE CLAIMS:

Please cancel Claims 22, 23, 25 and 99 to 104, without prejudice or disclaimer of subject matter, and amend Claims 1 to 21, 24, and 26 to 99, as shown below.

- 1. (Currently Amended) A method of transmitting data using multicarrier-type a modulation of the multicarrier type, comprising the steps operations of
- [[-]] extraction extracting a first signal from received data, where said of a first signal represents representing the transmission quality on of each sub-carrier observed and transmitted by a remote device;
- [[-]] allocation of allocating transmission data to the sub-carriers in an order, wherein the order is based on on an importance significance of the transmission data and the first signal representing the transmission quality, and
- [[-]] insertion of inserting a second signal in transmission data, wherein said of a second signal represents representing the order in which the transmission data are allocated to the sub-carriers based on the importance significance of the transmission data and the first signal; signal.
- 2. (Currently Amended) A method of receiving data using [[a]]

  multicarrier-type modulation, of a multicarrier type, comprising the steps operations of
- [[-]] analysis of analyzing a transmission channel so as to supply a signal representing transmission quality of each sub-carriers in a return direction;



- [[-]] extraction from extracting received data of a signal representing an order in which the transmission data are arranged by a transmission device on the subcarriers; and
- [[-]] formation of forming the received data according to the signal representing the order in which the transmission data are arranged by the transmission device.
- 3. (Currently Amended) A method according to claim 2, wherein the received data are serialized in said <u>forming step</u> formation operation according to the signal representing the order.
- 4. (Currently Amended) A device for transmitting data to a remote device, comprising comprising:
- [[-]] <u>allocating</u> means for allocating the transmission data to the to subcarriers in an order, wherein the order is based on on an importance significance of the transmission data and and a transmission quality of the sub-carriers; and
- [[-]] <u>inserting</u> means for inserting in the transmission data of a signal representing the order in which the transmission data are allocated on the sub-carriers based on the significance of the transmission data and the transmission quality of the sub-carriers.
- 5. (Currently Amended) A device according to claim 4, wherein said allocating means allocates the transmission data to the sub-carriers in the

order based on the transmission quality of the sub-carriers is observed observed and transmitted by a reception device.

6. (Currently Amended) Device according to Claim 4, wherein it comprises premodulator means including further comprising:

premodulator means, said premodulator means comprising:

- [[-]] a <u>presenting</u> means <u>of for presenting data to be transmitted according</u> to an importance and a transmission quality observed in each subcarrier in a direction of transmission, to the different inputs <u>of a of the modulator</u>, <u>wherein</u> each input <u>corresponds</u> corresponding to a subcarrier, different data to be transmitted according to a classification of their significance as well as the transmission quality level of each subcarrier in the "outward" direction A B,
- [[-]] a means of a first inserting means for inserting in the data to be transmitted a signal representing the transmission quality observed in each subcarrier in the "return" direction B A, in a direction opposite the direction of transmission, and
- [[-]] and a second inserting means of for inserting, in the data, a signal representing the an order in which the data to be transmitted there are arranged the different data to be transmitted at the an input of the premodulator,

and the device also has: the device further comprising:

- [[-]] a post-demodulator means, said post-demodulator means comprising including:
- [[-]] a means of a first extracting means for extracting, from the a signal issuing from the a demodulator, an FCD frequency classification data signal representing

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the <u>a</u> transmission quality observed by the remote device <u>B</u> on <u>for</u> each subcarrier in the "outward" direction <u>of transmission</u> A - B, <u>wherein</u> said signal <u>being</u> <u>is</u> generated by the remote <u>device</u> <u>B</u>,

[[-]] and a an analyzing means for analyzing of analysing the a transmission channel so as to supply the a signal representing the transmission quality of the transmission of each subcarrier in the direction opposite the direction of transmission "return" direction B - A,

- <u>.</u>
  - [[-]] a second extracting means of for extracting, from the signal issuing from the demodulator, a signal representing the order in which there were arranged the different data to be transmitted are arranged at the input of the premodulator of the remote device [[B]], and
  - [[-]] and a <u>a serializing</u> means of serializing for serializing the data received as a function of the DP <u>a data position</u> signal representing the <u>an</u> order in which there were arranged the different data to be transmitted <u>are arranged</u> at the input of the premodulator of the remote device B.
  - 7. (Currently Amended) Device according to either one of Claims Claim 6, wherein the premodulator means also includes further comprises a data classification unit and a frequency allocation unit.
  - 8. (Currently Amended) Device according to Claim 7, wherein the unit for classifying data to be transmitted has means adapted to generate presenting

means generates a DS data significance signal representing the importance significance of each data item supplied by the a data source.

9. (Currently Amended) Device according to Claim 7, wherein the said frequency allocation unit further comprises: has

first generating means adapted to generate for generating a data allocation command signal for determining (determining the distribution of the data over the different subcarriers), subcarriers from data, wherein the data includes including the data significance signal and frequency classification data signals, and DS and FCD signals A B and

second generating means for generating adapted to generate a signal representing the <u>an</u> order in which there are arranged the different data to be transmitted <u>are</u> arranged at the input of the premodulator.

- 10. (Currently Amended) Device according to Claim 7, wherein the frequency allocation unit <u>further comprises:</u> has means adapted to perform operations of:
- [[-]] storing means for storing initialisation, in which the frequency allocation unit reads the information contained in the frequency classification data signal, data signficance FCD, DS and storage signals for the frequency allocation unit to read,
- [[-]] <u>first classification means for classifying and storing classification of</u>
  the subcarriers by order of interference and storage in the <u>a classification</u> table thus
  obtained,

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- [[-]] second classification means for classifying and storing classification of the indices of the data to be transmitted in order of an importance significance, using the information contained in the data significance DS signal, and storage of the result of this classification,
- [[-]] <u>first</u> transmission <u>means for transmitting a of the</u> signal of the relative relative positioning positions of the data with respect to each other, to the <u>first inserting means</u> unit for insertion in the data to be transmitted,
- [[-]] second transmission means for transmitting a of the data allocation command signal to the a data allocation unit, wherein said data allocation command this DAC signal being in fact is composed of a pair of data, wherein each pair of data comprises output of the first classification means and the second classification means pairs (subcarriers, index of the data),
- [[-]] <u>a testing means for testing to check</u> whether <u>the data allocation</u> command signal has been completely transmitted

pair is supplied, and if the test is positive, the initialisation step is returned to.

11. (Currently Amended) Device according to Claim 7, wherein data allocation unit <u>further comprises a transfer means for transferring has means adapted</u> to transfer each data item supplied by the <u>a data</u> source to the <u>a</u> subcarrier defined denoted by the frequency allocation unit in the <u>a</u> data allocation command signal.

12. (Currently Amended) Device for the transmission of data from a device to a remote device via a transmission channel, according to any one of Claims 5 to 11, further comprising: wherein it has

a CPU calculation unit,

a temporary data storage unit,

a program storage unit,

a character character entry means,

an image image reproduction means and, and

an input-output means allowing inputs and outputs.

- 13. (Currently Amended) Telephone, wherein it has a device

  Device according to any one of Claims 5 to 11, wherein said device is a telephone.
- 14. (Currently Amended) Photographic apparatus, wherein it has a device Device according to any one of Claims 5 to 11, wherein said device is a photographic apparatus.
- 15. (Currently Amended) Printer, wherein it has a device Device according to any one of Claims 5 to 11, wherein said device is a printer.
- 16. (Currently Amended) Scanner, wherein it has a device

  Device according to any one of Claims 5 to 11, wherein said device is a scanner.





- 17. (Currently Amended) Camera, wherein it has a device

  Device according to any one of Claims 5 to 11, wherein said device is a camera.
- 18. (Currently Amended) Computer, wherein it has a device

  Device according to any one of Claims 5 to 11, wherein said device is a computer.
- 19. (Currently Amended) Facsimile machine, wherein it has a device Device according to any one of Claims 5 to 11, wherein said device is a facsimile machine.
- 20. (Currently Amended) Television receiver, wherein it has a device Device according to any one of Claims 5 to 11, wherein said device is a television receiver.
- 21. (Currently Amended) Audio/video player, wherein it has a device Device according to any one of Claims 5 to 11, wherein said device is an audio/video player.

22. (Cancelled)

23. (Cancelled)

24.

(Currently Amended)

Method Process for transmitting data

from a local device, A, to a remote device, B, via a transmission channel, local device A comprising a data source, two multi-carrier modulators, the first one being adapted to favor the minimum bit error rate and the second to favor the maximum data rate, multiplexers adapted to select a modulator and a radiofrequency interface;

wherein it comprises operations involving the method comprising the steps of:

- [[-]] receiving <u>data for transmission</u>, from the <u>a data</u> source <del>a new succession of data elements for transmission</del>;
- [[-]] extracting the importance information of importance that is associated therewith and corresponding to the data;

analyzing the importance this information;

- [[-]] if the data element is considered to be highly significant, inserting a « Most Significant Data » item of information flag and applying an algorithm that generates an Orthogonal Frequency Division Multiplex (OFDM) OFDM symbol after the an addition of redundancy bits that reduce the a peak value of the signal, in a case where the data is highly important;
- [[-]] if the data is considered to be less significant, inserting a « Least Significant Data » item of information flag and applying an algorithm that generates an OFDM symbol by using an inverse fast Fourier transform (IFFT) matrix modified so as to reduce the a peak value of the signal, in a case where the data is not highly important;
- [[-]] transmitting the generated OFDM symbol generated, via the RF a radiofrequency interface.





25. (Cancelled)

26. (Currently Amended)

transmitted by a remote device, A, via a transmission channel to a, the reception device, B, comprising a radiofrequency receiver, two multi-carrier demodulators, the first one being adapted to favor the minimum bit error rate and the second the maximum data rate, multiplexers adapted to select a demodulator, and a unit for extracting the type of demodulator to use;

wherein the process comprises operations involving comprising the steps of:

Process Method for receiving data

- [[-]] the radiofrequency receiver receiving a new succession of data elements at a radiofrequency receiver;
- [[-]] extracting the importance information of importance that is associated therewith with received data,

and analyzing the importance information this information;

- [[-]] generating a control signal representative of the <u>a</u> type of demodulation to be applied; applied, [[-]] wherein if the data element is considered to be highly significant, applying a demodulation favoring a minimum bit error rate; is applied, and wherein [[-]] if the data is considered to be less significant, applying a demodulation favoring a maximum data rate is applied; and
  - [[-]] sending demodulated data to the <u>a</u> destination.



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(Currently Amended)

Device, A, for transmitting data to a

remote device, B, via a transmission channel, with device A comprising a data source and a radiofrequency interface;

a data source;

a radiofrequency interface;

wherein the device according to the invention also comprises two multicarrier demodulators, wherein a first multi-carrier demodulator favors a minimum bit error
rate, and wherein a second multi-carrier demodulator favors a maximum bit rate; the first
one being adapted to favor the minimum bit error rate and the second to favor the
maximum bit rate, and

a plurality of multiplexers for selecting adapted to select a modulator, and an insertion unit responsible for inserting into the data an item of information representative of corresponding to a chosen the modulator, wherein a modulator is chosen according to an importance of a criterion of significance of the data received from the data source, and wherein the importance of data received from the data source also affects operation of said plurality of the said criterion further commanding the multiplexers.

(Currently Amended)

Device according to claim 27, wherein

said insertion unit the unit for inserting the item of information representative of the type of modulator chosen uses the prefix and the suffix inserted inserts an OFDM symbol prefix and a suffix into the data for transmission disposed in the form of OFDM symbols by the module ensuring synchronization of the a receiver.



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(Currently Amended) Device for transmitting data according

to one one of claims 27 to 28, further comprising: wherein it comprises

a computing unit CPU,

a unit for temporarily storing data,

a program storage unit,

a character acquisition means,

image restoring means, and

an input/output means permitting inputs/outputs.

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30. (Currently Amended) Device, B; for receiving data transmitted by a remote device, A; via a transmission channel, comprising; with reception device B comprising

a radiofrequency receiver;

two multi-carrier demodulators, wherein a first multi-carrier demodulator favors a the first one being adapted to favor the minimum bit error rate and wherein a second multi-carrier demodulator favors a the second the maximum data rate,

a plurality of multiplexers adapted to select for selecting a demodulator, and

[[a]]an extraction unit for extracting control data, such as a type of

demodulator to use, (type of demodulator to be used) and for generating a signal to

command the said plurality of multiplexers.

2) 31. (Currently Amended) Device for receiving data according to claim 30, further comprising: wherein it comprises





a computing unit CPU,

a unit for temporarily storing data,

a program storage unit,

a character acquisition means,

an image restoring means, and

an input/output means permitting inputs/outputs.

(Currently Amended)

Telephone, wherein it comprises a

device Device according to any one of claims 27 to 31, wherein said device is a telephone.

23. (Currently Amended) Photographic apparatus, wherein it comprises a device Device according to any one of claims 27 to 31, wherein said device is a photographic apparatus.

24. (Currently Amended) Printer, wherein it comprises a device

Device according to any one of claims 27 to 21, wherein said device is a printer.

36. (Currently Amended) Scanner, wherein it comprises a device Device according to any one of claims 27 to 31, wherein said device is a scanner.

36. (Currently Amended) Shooting camera, wherein it comprises a device Device according to any one of claims 27 to 32, wherein said device is a camera.

(Currently Amended) Computer, wherein it comprises a device Device according to any one of claims 27 to 31, wherein said device is a computer.

(Currently Amended) Facsimile device, wherein it comprises a device Device according to any one of claims 27 to 21, wherein said device is a facsimile machine.

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39. (Currently Amended) Television receiver, wherein it comprises a device Device according to any one of claims 27 to 31, wherein said device is a television receiver.

46. (Currently Amended) Audio / video reader, wherein it comprises a device Device according to any one of claims 2/1 to 21, wherein said device is an audio/video reader.

(Currently Amended) Method of managing information transmissions by radio between a base station and at least one peripheral station; communicating information with it by the transmission of carriers modulated by said information, said method including comprising the steps of: a step of

allocating a number of carriers and a modulation to at least one radio communication channel allocated to the transmission of information between said the base station and the said at least one peripheral station, and



a step of determining a number of carriers and a modulation adapted in response to a required service quality, in terms of transmission error rate and transmission rate, for a given transmission of information between said the base station and said the at least one peripheral station, wherein the adapted number of carriers and the modulation differing differ according to the required service qualities.

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transmission.

(Currently Amended) Method according to Claim M, wherein the required service qualities are also expressed in terms of transmission error rate threshold and variation in transmission rate acceptable for said given an information

43. (Currently Amended) Method according to Claim 41 or 42, wherein the step of determining a number of carriers and a modulation is performed during an information transmission between the base station and the at least one peripheral station.

4. (Currently Amended) Method according to Claim 41 or 43, wherein the step of determining a number of carriers and a modulation is performed between two information transmissions between the base stations and the at least one peripheral station.

45. (Currently Amended) Method according to Claim 41,

wherein it includes further comprising a step of receiving at least one measurement of a the

transmission error rate on the radio communication channel allocated to the transmission of information between the base station and the at least one peripheral station.

(Currently Amended) Method according to Claim 45, further comprising the steps of: wherein after the step of receiving said at least one measurement, said method includes a step of

analyzing said at least one measurement of the transmission error rate and comparing the result of this analysis the analyzing step with the required service quality in terms of transmission rate and transmission error rate.

wherein it includes further comprising a step of determining a number of carriers and a modulation which are adapted if the result of the comparing step indicates that this analysis does not meet the required service quality has not been met for said transmission.

48. (Currently Amended) Method according to Claim 41, wherein it includes further including a step of determining a number of carriers to be allocated which is different from a number of carriers that which was previously allocated to said at least one communication channel between the base station and the at last one peripheral station.

46. (Currently Amended) Method according to Claim 48, wherein the number of carriers to be allocated to said at least one communication channel



between the base station and the at least one peripheral station is greater than <u>a number of</u>

<u>carriers</u> that <u>was</u> allocated previously to this communication channel.

(Currently Amended) Method according to Claim 48, wherein the number of carriers to be allocated to said at least one communication channel between the base station and the at least one peripheral station is less than a number of

51. (Currently Amended) Method according to Claim 49,

wherein it includes, on the one hand, further comprising the steps of: a step of

carriers that was the one allocated previously to this communication channel.

determining a number of carriers to be allocated to a first communication channel between the base station and a first peripheral station which is greater than a number of carriers that which was previously allocated to this first communication channel, and, on the other hand,

a step of determining a number of carriers to be allocated to a second communication channel between the base station and a second peripheral station which is less than that a number of carriers which was previously allocated to this second communication channel, in response to service qualities required respectively for the transmission of information on these communication channels in terms of transmission error rate and transmission rate.

52. (Currently Amended) Method according to Claim 41, wherein said method also further includes a step of determining a modulation to be

allocated to said at least one communication channel between the base station and the at least one peripheral station which is different from that a modulation previously allocated.

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53. (Currently Amended) Method according to Claims 21, wherein the a transmission by modulated carriers uses a technique of modulation by Orthogonal Frequency Division Multiplexing (OFDM) orthogonal frequency division multiplexing OFDM.

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54. (Currently Amended) Method of sending information over a radio communication channel including the steps of

allocating a number of carriers and a modulation to said information for transmitting these over said a radio communication channel,

sending said the information in the form of carriers modulated by the said information, and

reconfiguring the number of carriers and the modulation allocated to the information as a function of a required service qualities quality in terms of transmission error rate and transmission rate for a given information transmission, wherein the number of carriers and the modulation reconfigured differing differ according to the required service qualities.

55. (Currently Amended) Method according to Claim 54, wherein the required service qualities are also expressed in terms of transmission error rate

threshold and variation in the transmission rate which are acceptable for said given information for transmission.

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86. (Currently Amended) Method according to any one of Claim;
54 or 55, wherein the reconfiguring step of reconfiguring the number of carriers and the modulation is performed during an information transmission.

57. (Currently Amended) Method according to Claims 54 or 55, wherein the reconfiguring step of reconfiguring the number of carriers and the modulation is performed between two information transmissions.

Method according to Claim 54, wherein, prior to the step of reconfiguring the number of carriers and the modulation, said method includes further including a step for of sending a request to allocate a service quality in terms of transmission rate and transmission error rate for a given an information transmission.

89. (Currently Amended) Method according to Claim 84, wherein the a number of carriers reconfigured is different from the a number of carriers previously allocated.

60. (Currently Amended) Method according to Claim 59, wherein the a number of carriers reconfigured is greater than the a number of carriers previously allocated.

Method according to Claim 59, wherein the <u>a</u> number of carriers reconfigured is less than the <u>a</u> number of carriers previously allocated.

Method according to Claim 54, wherein the reconfigured a modulation reconfigured is different from that a modulation previously allocated.

(Currently Amended) Method according to Claim \$4, wherein the sending step transmission by modulated carriers uses a technique of modulation by Orthogonal Frequency Division Multiplexing orthogonal frequency multiplexing.

64. (Currently Amended) Method of receiving information coming from a radio communication channel, comprising the steps of: including a step of receiving said information sent in the form of carriers modulated by said information,

and a step of selecting the carriers and modulation allocated to said information, and

a step of reconfiguring the <u>a</u> number of carriers and the modulation to be selected according to a required service quality qualities in terms of transmission error rate and transmission rate for <u>a given an</u> information transmission, the number of carriers and the modulation reconfigured differing according to the required service qualities.

65. (Currently Amended) Method according to Claim 64,

wherein the required service qualities are <del>also</del> expressed in terms of transmission error rate threshold and variation in the transmission rate which are acceptable for said <del>given</del> information transmission.

(Currently Amended) Method according to <u>any one of</u>

Claims Claim 64 or 65, wherein the <u>reconfiguring</u> step of reconfiguring the number of

carriers and the modulation is performed during an information transmission.

Claims Claim 64 or 65, wherein the reconfiguring step of reconfiguring the number of carriers and the modulation is performed between two information transmissions.

(Currently Amended) Method according to Claim 64,

wherein said method includes <u>further comprising</u> a step of <u>carrying out at least one</u>

measurement of <u>measuring</u> the transmission error rate on the radio communication channel allocated to <u>the an</u> information transmission in <u>question</u>.

(Currently Amended)

Method according to Claim 64,

wherein the number of carriers which are reconfigured is different from the a number of carriers previously allocated.

(Currently Amended) Method according to Claim 69,

wherein the number of carriers which are reconfigured is greater than the a number of carriers previously allocated.

(Currently Amended) Method according to Claim 69,

wherein the number of carriers which are reconfigured is less than the a number of carriers previously allocated.

(Currently Amended) Method according to Claim 64,

wherein the reconfigured modulation is reconfigured different from the modulation that previously allocated.

(Currently Amended) Method according to Claim 64,

wherein receiving step receives the transmission by modulated carriers uses a technique of modulation modulated by Orthogonal Frequency Division Multiplexing (OFDM) orthogonal frequency multiplexing.

(Currently Amended) Device for managing the information

transmissions by radio between a base station and at least one peripheral station

communicating information with it by transmitting carriers modulated by said information, said device comprising: having

allocating means of for allocating a number of carriers and a modulation to at least one radio communication channel allocated to a the transmission of information between said the base station and said the at least one peripheral station, and

determining means for of determining a number of carriers and a modulation adapted in response to required service qualities, in terms of transmission error rate and transmission rate, for a given information transmission between said the base station and said the at least one peripheral station, the number of carriers and the modulation adapted differing according to the required service qualities.

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//. (Currently Amended) Device according to Claim //4,

wherein the required service qualities are also expressed in terms of transmission error rate threshold and variation in the <u>a</u> transmission rate which are acceptable for said <del>given</del> information transmission.

Claim 74 or 75, further comprising receiving means for wherein it has means of receiving at least one measurement of the transmission error rate.

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76, further

Device according to Claim 76, further

comprising:

wherein it has means of analyzing means for analyzing said the at least one measurement of the transmission error rate and

comparing means for comparing the output of the analyzing means result of this analysis with the required service qualities quality in terms of transmission rate and transmission error rate.

(Currently Amended) Device according to Claim 74, further

comprising determining means for wherein said device has means of determining a number of carriers to be allocated which is different from that a number of carriers previously allocated to the said at least one communication channel between the base station and the at least one peripheral station.

(Currently Amended) Device according to Claim 78,

wherein the number of carriers to be allocated to the said at least one communication channel between the base station and the at least one peripheral station is greater than the number of carriers that allocated previously to this the communication channel.

γη (Currently Amended) Device according to Claim 78,

wherein the number of carriers allocated to said at least one communication channel between the base station and the at least one peripheral station is less than the number of carriers that allocated previously to the this communication channel.

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(Currently Amended)

Device according to Claim 80,

wherein it has, on the one hand, further comprising:

first determining means for means of determining a number of carriers to be allocated to a first communication channel between the base station and a first peripheral station which is greater than that previously allocated to this the first communication channel, and, on the other hand,

second determining means for means of determining a number of carriers to be allocated to a second communication channel between the base station and a second peripheral station which is less than that previously allocated to the second communication channel, in response to service qualities required respectively for the transmission of information over this the communication channel in terms of transmission error rate and transmission rate.

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%2. (Currently Amended) Device according to Claim 74,

wherein it also has <u>further comprising determining means for means of determining a</u> modulation to be allocated to said at least one communication channel between the base station and the at least one peripheral station which is different from that <u>a modulation</u> allocated previously.

7( 83. (Currently Amended) Device according to Claim 14,

wherein the transmission by modulated carriers uses using a technique of modulation by known as Orthogonal Frequency Divisional Multiplexing (OFDM) orthogonal frequency multiplexing.

84. (Currently Amended)

Device for sending information over a

radio communication channel, comprising: having

allocating means for means of allocating a number of carriers and a modulation to said information for transmitting it over said the radio communication channel,

sending means for means of sending said information in the form of carriers modulated by said information, and

reconfiguring means for means of reconfiguring the number of carriers and the modulation allocated to the information according to [[a]] required service qualities quality, in terms of transmission error rate and transmission rate for a given information transmission, the number of carriers and the modulation reconfigured differing according to the required service qualities.

85. (Currently Amended) Device according to Claim 84,

wherein the required service qualities are <del>also</del> expressed in terms of transmission error rate threshold and variation in the <u>a</u> transmission rate which are acceptable for <u>an</u> said given information transmission.

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83. (Currently Amended) Device according to Claim 86, wherein the number of carriers reconfigured is greater than a number of carriers that previously allocated.

% (Currently Amended) Device according to Claim %, wherein the number of carriers reconfigured is less than that a number of carriers previously allocated.

%9. (Currently Amended) Device according to Claim 4, wherein the reconfigured modulation reconfigured is different from that a modulation previously allocated.

(Currently Amended) Device according to Claim &4,
wherein the <u>information</u> transmission by modulated carriers uses a technique of <u>Orthogonal</u>
Frequency Division Multipleing (OFDM) modulation by orthogonal frequency
multiplexing.

(Currently Amended) Device for receiving information coming from a radio communication channel, having comprising:

receiving means for means of receiving said information sent in the form of carriers modulated by said the information,

selecting means for means of selecting the carriers and the modulation allocated to said for the information, and

reconfiguring means for means of reconfiguring the number of carriers and the modulation to be selected as a function of a required service qualities quality, in terms of transmission error rate and transmission rate, for a given an information transmission, the number of carriers and the modulation reconfigured differing according to the required service qualities.

92. (Currently Amended) Device according to Claim 91,

wherein the required service qualities are also expressed in terms of transmission error rate threshold and variation in the transmission rate which are acceptable for said given information transmission.

93. (Currently Amended) Device according to any one of Claims Claim 91 or 92, wherein it has further comprising measuring means for means of measuring the transmission error rate on the radio a communication channel allocated to the information transmission.

98 94. (Currently Amended) Device according to Claim 91, wherein the number of carriers reconfigured is different from a number of carriers that which was previously allocated.

95. (Currently Amended) Device according to Claim 94, wherein the number of carriers reconfigured is greater than a number of carriers that previously allocated.



96. (Currently Amended) Device according to Claim 94,

wherein the number of carriers reconfigured is less than that a number of carriers previously allocated.

97. (Currently Amended) Device according to Claim 91,

wherein the reconfigured modulation when reconfigured is different from a modulation that previously allocated.

98. (Currently Amended) Device according to <u>any</u> one of Claims 53 to 97, wherein the transmission by modulated carriers uses a technique of modulation known as Orthogonal Frequency Division Multiplexing by orthogonal frequency multiplexing.

99. to 104 (Cancelled)

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